

## **Abstract**

This bachelor's thesis brings teaching tasks for secondary school students that could serve as teaching material for chemistry classes. The tasks link chemical topics related to water and its pollution with the cross-cutting topic of Environmental Education. The teaching tasks aim to develop students' scientific literacy. The inspiration for the development of the teaching tasks was the comprehensive tasks of the international survey PISA (Programme for International Students Assessment). The tasks were tested on grammar school students, who provided feedback concerning the difficulty of individual tasks or subtasks and also with regard to familiarity with the topic and its attractiveness. The most difficult tasks for the students were those working with calculations. The least challenging tasks were those based on searching for information in text or graphs and tables. Students rated the topics of the tasks as exciting and necessary.

## **Key Words**

scientific literacy, learning tasks, environmental education, water, chemistry